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XVII.—*Comparative View of the various Standards commonly used to express Vertical Distances.* By Miss COLTHURST.
Communicated by G. Bellas Greenough, Esq.

[Read Nov. 26, 1849.]

THE object of the accompanying table is to supply geographical students with a standard by which they may compare the notations of vertical distances contained in foreign works.

At present the barometrical observations of learned foreigners are frequently expressed in French mètres, in pieds du Rhin, in pieds de Berlin, in Paris feet, palmas, varas, &c. &c., rendering it necessary to enter into long calculations before comparative results can be obtained.

It is hoped that the present table will obviate this difficulty.

The standard selected has been the geographical mile taken at the equator, this being a fixed quantity universally known and dependent upon the figure of the earth itself. By taking 5 of these miles and dividing each into 100 parts or degrees, a scale is formed consisting of 500 degrees, each of which is equal to $60\frac{1}{2}$ English feet.

By this arrangement the student of every nation will find no difficulty in at once referring unfamiliar measures not only to one philosophical term, but to the standard to which he is himself best accustomed. If, for instance, it be stated that an observed elevation is equal to 11,956 pieds de Berlin, a glance at the scale will show that this is equal to 200 degrees, or 2 geographical miles; and carrying the eye along the line, a ready comparison may be instituted with any other standard measure desired.

The author is indebted to a paper by M. de Jomard* for the first suggestion of the utility of such a scale, and should the annexed table meet with a favourable notice among geographers, it is in contemplation to publish a work embodying the principal observed elevations upon the surface of the globe, and referring each to its corresponding value upon the geographical scale.

* Bulletin de la Société de Géographie, Deuxième Série, tom. iii.

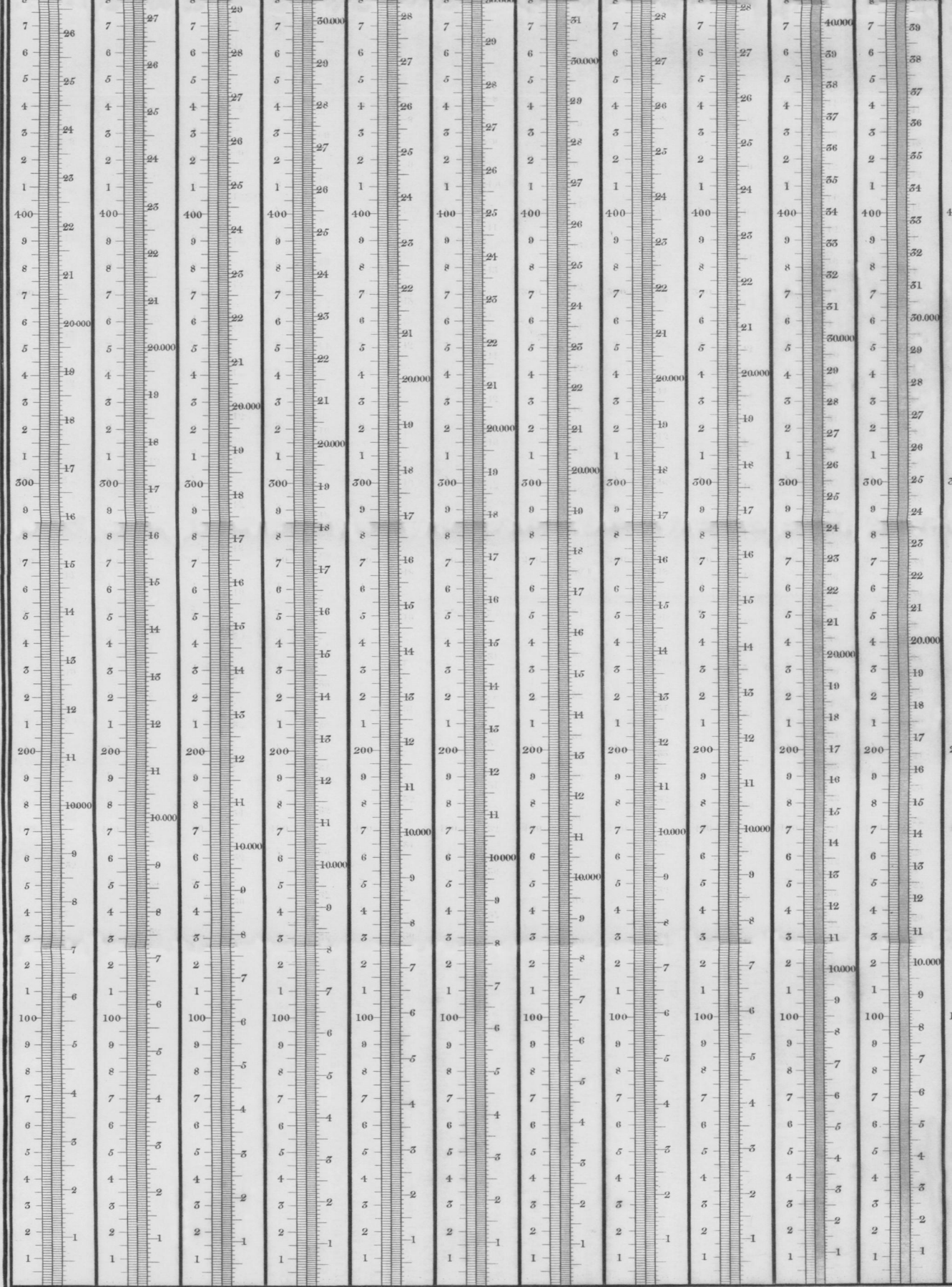
Comparative View of the various Standards commonly used by Geographers to express vertical Distances

5 Geo ^l . Miles at the Equator.	French Feet (Métrocal.)	5 Geo ^l . Miles at the Equator	French Feet (Pieds du Roi)	5 Geo ^l . Miles at the Equator	English Feet.	5 Geo ^l . Miles at the Equator	Bavarian Feet.	5 Geo ^l . Miles at the Equator	Danish Feet.	5 Geo ^l . Miles at the Equator	Swedish Feet.	5 Geo ^l . Miles at the Equator	Spanish Feet.	5 Geo ^l . Miles at the Equator	Dutch Feet (Pieds du Rhin)	5 Geo ^l . Miles at the Equator	Austrian Feet (Wiener Füsse.)	5 Geo ^l . Miles at the Equator	Portuguese Pabns.	5 Geo ^l . Miles at the Equator	Roman Fathms.	5 Geo ^l . Miles
500		500		500		500		500		500		500		500		500		500		500		500
9	27.000	9	28.000	9	30.000	9	31	9	29.000	9	31	9	32	9	29.000	9	29.000	9	42	9	41	
8		8		8	29	8	30.000	8	28	8	30.000	8	31	8	28	8	28	8	41	8	40.000	
7	26	7	27	7	28	7	30.000	7	27	7	29	7	31	7	28	7		7	40.000	7	39	
6		6		6	28	6	29	6	27	6	28	6	30.000	6	27	6	27	6	39	6	38	
5	25	5	26	5	27	5	28	5	26	5	28	5	29	5	26	5	26	5	38	5	37	
4		4		4	26	4	27	4	25	4	27	4	28	4	25	4	25	4	37	4	36	
3	24	3	25	3	25	3	26	3	24	3	26	3	27	3	24	3	24	3	36	3	35	
2		2		2	24	2	25	2	23	2	25	2	26	2	23	2	23	2	35	2	34	
1	23	1	24	1	23	1	24	1	22	1	24	1	25	1	22	1	22	1	34	1	33	
400		400		400		400		400		400		400		400		400		400		400		400
9	22	9	23	9	24	9	25	9	23	9	25	9	26	9	23	9	23	9	33	9	32	
8		8		8	23	8	24	8	22	8	24	8	25	8	22	8	22	8	32	8	31	
7	21	7	22	7	22	7	23	7	21	7	22	7	23	7	21	7	21	7	31	7	30	
6		6		6	22	6	23	6	20	6	21	6	22	6	20	6	20	6	30.000	6	29	
5	20.000	5	21	5	21	5	22	5	19	5	20	5	21	5	19	5	19	5	29	5	28	
4		4		4	20.000	4	21	4	18	4	19	4	20	4	18	4	18	4	28	4	27	
3	19	3	20	3	19	3	20	3	17	3	18	3	19	3	17	3	17	3	27	3	26	
2		2		2	18	2	19	2	16	2	17	2	18	2	16	2	16	2	26	2	25	
1	17	1	18	1	17	1	18	1	15	1	16	1	17	1	15	1	15	1	25	1	24	
500		500		500		500		500		500		500		500		500		500		500		500
9	16	9	17	9	18	9	19	9	15	9	16	9	17	9	15	9	15	9	24	9	23	
8		8		8	17	8	18	8	14	8	15	8	16	8	14	8	14	8	23	8	22	
7	15	7	16	7	16	7	17	7	13	7	14	7	15	7	13	7	13	7	22	7	21	
6		6		6	15	6	16	6	12	6	13	6	14	6	12	6	12	6	21	6	20	
5	14	5	15	5	14	5	15	5	11	5	12	5	13	5	11	5	11	5	20	5	19	
4		4		4	13	4	14	4	10	4	11	4	12	4	10	4	10	4	19	4	18	
3	13	3	14	3	13	3	14	3	9	3	10	3	11	3	9	3	9	3	18	3	17	
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200		200		200		200		200		200		200		200		200		200		200		200
9	11	9	12	9	11	9	12	9	6	9	7	9	8	9	6	9	6	9	15	9	14	
8		8		8	10	8	11	8	5	8	6	8	7	8	5	8	5	8	14	8	13	
7	10.000	7	11	7	10.000	7	11	7	4	7	5	7	6	7	4	7	4	7	13	7	12	
6		6		6	9	6	10	6	3	6	4	6	5	6	3	6	3	6	12	6	11	
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3	8	3	9	3	6	3	7	3	0	3	1	3	2	3	0	3	0	3	9	3	8	
2		2		2	5	2	6	2	0	2	0	2	1	2	0	2	0	2	8	2	7	
1	7	1	8	1	4	1	5	1	0	1	0	1	0	1	0	1	0	1	7	1	6	
100		100		100		100		100		100		100		100		100		100		100		100
9	6	9	7	9	3	9	4	9	0	9	1	9	2	9	0	9	0	9	6	9	5	
8		8		8	2	8	3	8	0	8	0	8	1	8	0	8	0	8	5	8	4	
7	5	7	6	7	1	7	2	7	0	7	0	7	0	7	0	7	0	7	4	7	3	

Comparative View

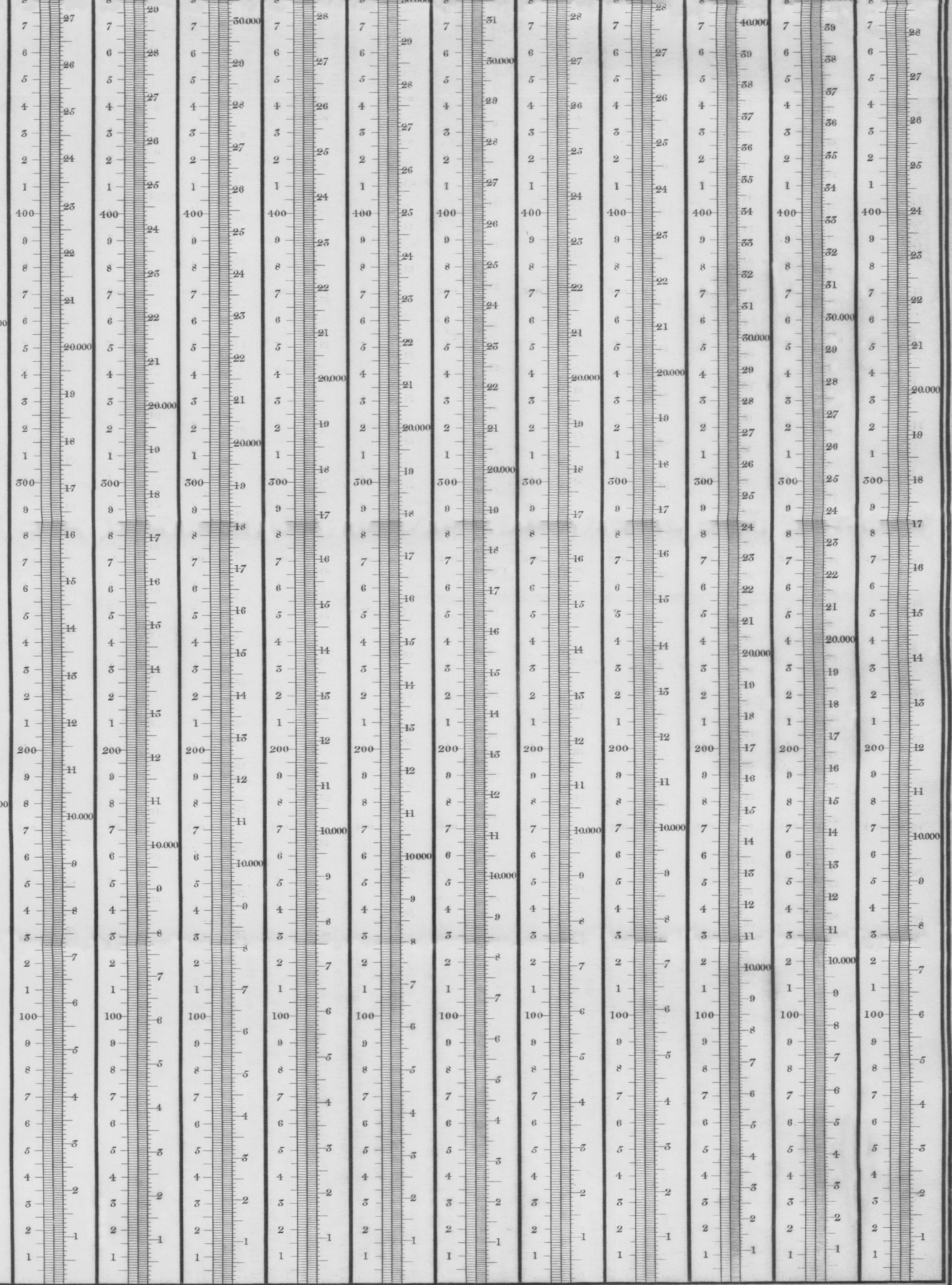
of the various Standards commonly used by Geographers to express vertical Distances.

5 Geo ^l . Miles at the Equator	French Feet (Pieds du Roi)	5 Geo ^l . Miles at the Equator	English Feet.	5 Geo ^l . Miles at the Equator	Bavarian Feet.	5 Geo ^l . Miles at the Equator	Danish Feet.	5 Geo ^l . Miles at the Equator	Swedish Feet.	5 Geo ^l . Miles at the Equator	Spanish Feet.	5 Geo ^l . Miles at the Equator	Dutch Feet (Pieds du Rhin)	5 Geo ^l . Miles at the Equator	Austrian Feet (Wiener Masse.)	5 Geo ^l . Miles at the Equator	Portuguese Palmes.	5 Geo ^l . Miles at the Equator	Roman Palmes.	5 Geo ^l . Miles at the Equator	Prussian Feet (Berlin Masse.)
500		500		500		500		500		500		500		500		500		500		500	
9	28.000	9	50.000	9	51	9	28.000	9	51	9	32	9	29.000	9	42	9	42	9	41	9	29.000
8		8	20	8	50.000	8	28.000	8	50.000	8	31	8	28	8	41	8	40.000	8	40.000	8	28.000
7	27	7	27	7	50.000	7	28	7	29	7	30	7	27	7	40.000	7	39	7	39	7	28
6	26	6	28	6	29	6	27	6	50.000	6	29	6	27	6	39	6	38	6	38	6	27
5		5	27	5	28	5	26	5	28	5	28	5	26	5	38	5	37	5	37	5	26
4	25	4	26	4	27	4	25	4	27	4	27	4	25	4	37	4	36	4	36	4	25
3		3	25	3	26	3	24	3	26	3	26	3	24	3	36	3	35	3	35	3	24
2	24	2	24	2	27	2	25	2	26	2	25	2	23	2	35	2	34	2	34	2	23
1	23	1	25	1	26	1	24	1	27	1	24	1	22	1	34	1	33	1	33	1	22
400		400	24	400	25	400	25	400	26	400	26	400	25	400	34	400	33	400	33	400	24
9	22	9	24	9	25	9	23	9	25	9	25	9	23	9	33	9	32	9	32	9	23
8		8	25	8	24	8	22	8	24	8	25	8	22	8	32	8	31	8	31	8	22
7	21	7	22	7	23	7	21	7	25	7	24	7	21	7	31	7	30.000	7	30.000	7	21
6		6	22	6	22	6	21	6	22	6	25	6	21	6	30.000	6	29	6	29	6	21
5	20.000	5	21	5	22	5	20.000	5	22	5	22	5	20.000	5	29	5	28	5	28	5	20.000
4		4	20.000	4	21	4	19	4	21	4	22	4	19	4	28	4	27	4	27	4	19
3	19	3	20.000	3	21	3	18	3	21	3	21	3	18	3	27	3	26	3	26	3	18
2	18	2	19	2	20.000	2	17	2	20.000	2	21	2	17	2	26	2	25	2	25	2	17
1		1	18	1	19	1	16	1	19	1	20	1	16	1	25	1	24	1	24	1	16
300	17	300	18	300	19	300	18	300	19	300	18	300	17	300	24	300	23	300	23	300	17
9		9	17	9	18	9	15	9	17	9	17	9	15	9	23	9	22	9	22	9	15
8	16	8	17	8	16	8	14	8	16	8	16	8	14	8	22	8	21	8	21	8	14
7		7	16	7	15	7	13	7	15	7	15	7	13	7	21	7	20.000	7	20.000	7	13
6	15	6	15	6	14	6	12	6	14	6	14	6	12	6	20.000	6	19	6	19	6	12
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4	14	4	14	4	13	4	10	4	13	4	12	4	10	4	18	4	17	4	17	4	10
3	13	3	13	3	12	3	9	3	12	3	11	3	9	3	17	3	16	3	16	3	9
2		2	12	2	11	2	8	2	11	2	10	2	8	2	16	2	15	2	15	2	8
1	12	1	11	1	10	1	7	1	10	1	9	1	7	1	15	1	14	1	14	1	7
200		200	12	200	12	200	11	200	12	200	11	200	10	200	14	200	13	200	13	200	10
9	11	9	11	9	10	9	6	9	11	9	10	9	6	9	13	9	12	9	12	9	6
8	10.000	8	10.000	8	9	8	5	8	10	8	9	8	5	8	12	8	11	8	11	8	5
7		7	9	7	8	7	4	7	9	7	8	7	4	7	11	7	10	7	10	7	4
6	9	6	8	6	7	6	3	6	8	6	7	6	3	6	10	6	9	6	9	6	3
5		5	7	5	6	5	2	5	7	5	6	5	2	5	9	5	8	5	8	5	2
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3		3	5	3	4	3	0	3	5	3	4	3	0	3	7	3	6	3	6	3	0
2	7	2	4	2	3	2	0	2	4	2	3	2	0	2	6	2	5	2	5	2	0
1	6	1	3	1	2	1	0	1	3	1	2	1	0	1	5	1	4	1	4	1	0
100		100	6	100	6	100	5	100	6	100	5	100	4	100	4	100	3	100	3	100	4
9	5	9	5	9	4	9	4	9	5	9	4	9	3	9	3	9	2	9	2	9	3
8		8	4	8	3	8	3	8	4	8	3	8	2	8	2	8	1	8	1	8	2
7	4	7	3	7	2	7	2	7	3	7	2	7	1	7	1	7	0	7	0	7	1



The scale represents 5 geographical miles taken at the Equator—each mile is divided into one hundred degrees. The left side of each column shows the divisions of the geog. mile—the right hand side its corresponding value in the standards generally employed. The geog. mile at the equator = to 6075.78 English feet.

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The left hand side represents 5 geographical miles taken at the Equator - each mile is divided into one hundred degrees. The left hand side of each column shows the divisions of the geog. mile - the right hand side its corresponding value in the standards most commonly employed. The geog. mile at the equator = to 6075.78 English feet.